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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/954,495	09/10/2001	Bruce R. Woodley	M-12004 US	8573
27160 7	590 12/28/2004		EXAM	INER
KATTEN MUCHIN ZAVIS ROSENMAN 525 WEST MONROE STREET			LEUNG, QUYEN PHAN	
CHICAGO, IL 60661-3693			ART UNIT	PAPER NUMBER
,			2828	

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/954,495	WOODLEY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quyen P. Leung	2828				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above, is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by sl Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a b. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON tatute, cause the application to become Al	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 0	3 August 2004.					
2a) This action is <b>FINAL</b> . 2b) ⊠	This action is non-final.					
* *	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)  Claim(s) <u>1-76</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with 5)  Claim(s) is/are allowed.  6)  Claim(s) <u>1-76</u> is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction are	drawn from consideration.					
Application Papers						
9) The specification is objected to by the Exan  10) The drawing(s) filed on is/are: a)  Applicant may not request that any objection to  Replacement drawing sheet(s) including the con  11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyar rrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority document	ents have been received.  ents have been received in A  priority documents have been  reau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)						
1)  Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)				
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 9/01,7/03, 8/04.</li> </ul>	Paper No(s	s)/Mail Date  nformal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

## Allowable Subject Matter

1. The indicated allowability of claims 1-76 is withdrawn in view of the newly discovered reference(s) to Heismann et al (Electronics Letters 5/87 article). Rejections based on the newly cited reference(s) follow.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-35, 66-68, 72-76 are rejected under 35 U.S.C. 102(b) as being anticipated by Heismann et al (Electronics Letters 5/21/1987 article). Heismann et al clearly discloses the claimed invention of a method of synthesizing an electric field. As claimed by applicant Heismann et al teaches in figures 1 and 2 a plurality (two) of voltage levels (VT, VMC) to be generated at a corresponding plurality (two) of groups of locations in space and applying the plurality (two) of voltage levels (VT, VMC) at a corresponding plurality of groups of locations, the plurality (two) of groups of electrodes being electrically insulated from all (each) other.

Re the birefringent material, see abstract for mention of the birefringent waveguide.

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### Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 36-65, 69-71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heismann et al. Heismann et al has been discussed above except for the digital storage elements. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate into Heismann et al the digital storage elements, since it has been held that broadly providing a mechanical or automatic means to replace manual activity which has accomplished the same result involves only routine skill in the art. *In re Venner*, 120 USPQ 192.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (571)272-1943. The examiner can normally be reached on 8-4:30, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun Harvey can be reached on (571)272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quyen P. Leung Primary Examiner Art Unit 2828 Page 4

**QPL**